

CLAIMS

- [1] A heat-cooking apparatus comprising:
- a heating chamber having an opening through which an article-to-be-heated is put into and taken out of the heating chamber;
 - a door for opening and closing the opening; and
 - heating medium generating means for generating a heating medium,
- the heat-cooking apparatus heating and thereby cooking the article-to-be-heated placed inside the heating chamber by means of the heating medium,
- wherein
- the heat-cooking apparatus further comprises:
- blowing means that blows cooling air to the opening when, after the heating medium is supplied to the heating chamber by the heating medium generating means, the door starts to be opened.
- [2] The heat-cooking apparatus of claim 1, wherein
- the heating medium generating means is steam generating means that generates steam as the heating medium.
- [3] The heat-cooking apparatus of claim 1, wherein
- the opening is provided in a front face of the heating chamber,
 - the door is pivotably hinged in a bottom part or top part of a casing for housing the heating chamber so that the door opens vertically with respect to the opening, and
 - the blowing means blows the cooling air to the opening so that the cooling air passes the opening sideways.

- [4] The heat-cooking apparatus of claim 3, wherein
 the blowing means blows the cooling air to the opening so that the cooling air
 passes an upper part of the opening sideways.
- [5] The heat-cooking apparatus of claim 4, wherein
 the blowing means blows the cooling air to the opening so that the cooling air
 passes a part of the opening above half a vertical dimension thereof sideways.
- [6] The heat-cooking apparatus of claim 3, wherein
 the blowing means has a cooling fan for cooling a power supply circuit board
 provided inside the apparatus, and
 the blowing means blows, as the cooling air, air sucked in from outside the
 apparatus by the cooling fan to the opening.
- [7] The heat-cooking apparatus of claim 6, wherein
 the blowing means includes deflecting means that deflects the air sucked in by
 the cooling fan to blow the air to the opening.
- [8] The heat-cooking apparatus of claim 7, wherein
 the door has a multiple-glazed portion having a plurality of transparent glass
 plates arranged to face one another at a predetermined gap from one another so that,
 when the door is closed, part of the multiple-glazed portion faces at least the opening,
 and
 the deflecting means directs the air sucked in by the cooling fan toward a side

of the multiple-glazed portion when the door is closed.

[9] The heat-cooking apparatus of claim 8, wherein

the door has a support base plate that has an area larger than an area of the multiple-glazed portion and so large as to cover an entire opening-side face of the heating chamber in the casing and that supports the multiple-glazed portion from a face thereof facing away from the opening when the door is closed,

the support base plate includes an operation portion for setting operation conditions of the apparatus, and

the deflecting means is built with a decoration box that is provided between the operation portion and the casing, at a side of the multiple-glazed portion when the door is closed.

[10] The heat-cooking apparatus of claim 8, wherein

the door has a support base plate that has an area larger than an area of the multiple-glazed portion and so large as to cover an entire opening-side face of the heating chamber in the casing and that supports the multiple-glazed portion from a face thereof facing away from the opening when the door is closed,

the support base plate includes an operation portion for setting operation conditions of the apparatus, and

the deflecting means is built with a protruding portion that protrudes from the casing along surfaces of the multiple-glazed portion and of the support base plate when the door is closed.

- [11] The heat-cooking apparatus of claim 1, wherein
 the blowing means blows the cooling air to the opening for a predetermined
length of time after the door starts to be opened after completion of heat-cooking
inside the heating chamber.
- [12] The heat-cooking apparatus of claim 1, wherein
 while the heating medium is being supplied to the heating chamber by the
heating medium generating means, the blowing means blows the cooling air into an
interior of the door in a closed state.